COURSE SYLLABUS

University	UNIVERSITY OF ORADEA
Faculty	FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT
Study program*	INDUSTRIAL ECONOMIC ENGINEERING

I. Course Name: Operations and machinery in leather textiles

II. Course Details

No of hours/week						
Code	Semester	Credits	Lecture	Seminar	Laboratory	Project
IEMI-0770	6	5	2		1	2

III. Course coordinator (title, name, surname, e-mail): Secan Cristina, cris_secan@yahoo.com

IV. Course objectives	
- Familiarization of students with basic concepts and basics in the field of textiles-leather - Acquiring skills in understanding processes and phenomena	
V. Course content	**No. of hours**
V.1. Lecture (chapters/subchapters and paragraphs)	
1. Generalities / Concept technology; Trends in the development of footwear manufacturing technology; Technology as a system; Characteristics of technological processes in the leather products and substitutes industry.	8
2. General principles for structuring processes for producing footwear / Criteria and general classification scheme for footwear products; Classification scheme for footwear products; Structural scheme of footwear products; The stages of the process of obtaining footwear; The process of making footwear from substitutes.	4
3. Technological processes for obtaining the upper set of footwear / Hierarchical structural scheme of the upper set of footwear; Listing and encoding operations for processing flexible-assembly of parts; Processes for obtaining the superior assembly for different types of products.	6
4. Technological processes for processing and assembling the component parts of the lower assembly / Processes for parts made of rigid plates in the form of plates; Processes for parts made of shapeless materials.	4
5. Technological processes for structuring footwear in different clothing systems / Manufacturing systems - classification, particularities, fields of use, variants; Technological processes of spatial formation and structuring of footwear in different clothing systems; Technological processes of spatial formation and structuring of footwear in different garment systems.	6
V.2. Laboratory/Seminar/Project:	
1. Establishing correlations between the product, component parts and the basic materials from which the footwear is made.	**1**
2. Establishing the basic materials in correlation with the product and specifying their main characteristics.	**1**
3. Establishing the methods of processing the parts in order to make subassemblies.	**1**
4. Adoption of joining methods, the practical modalities and processing assemblies.	**1**
5. General information on marking, packaging, storage and transport of footwear.	**1**
6. The consumption of material for the sides.	**1**
7. The consumption of material for cushioning.	**1**
8. The consumption of thread.	**1**
9. The consumption of adhesive.	**1**
10. The consumption of adhesive.	**1**
11. Preparation of technological processes on manufacturing workshops: rigid cutting workshop.	**1**

12. Preparation of technological processes on manufacturing workshops: rigid training workshop.	**1**
13. Preparation of technological processes on manufacturing workshops: preparation - sewing workshop.	**1**
14. Preparation of technological processes on manufacturing workshops: the shooting-soleplate-finishing workshop.	**1**
Project	
Technological design of a unit which produces footwear restrictive conditions	
1. Defining the footwear items that will be produced in the designed unit.	**2**
2. Determining the need for raw and auxiliary materials, their storage based on the calculated consumption norms.	**2**
3. Elaboration of technological processes for the manufacture of adopted footwear articles: flexible parts cutting workshop.	**2**
4. Elaboration of the technological processes for the manufacture of the adopted footwear articles: rigid parts cutting workshop.	**2**
5. Elaboration of technological processes for the manufacture of adopted footwear items: rigid parts preparation workshop.	**2**
6. Elaboration of technological processes for the manufacture of adopted footwear items: preparation-sewing workshop.	**2**
7. Elaboration of the technological processes for the manufacture of the adopted footwear articles: the shooting-soleplate-finishing workshop.	**2**
8. Sizing of the production system.	**2**
9. Hand tools and job placement workshops manufacturing.	**2**
10. Flow location and calculation of equipment operations.	**2**
11. Ensuring the internal transport of raw materials, parts, semi-finished products, personnel and finished products.	**2**
12. Safety technique, fire prevention and extinguishing, labor protection.	**2**
13. Economic efficiency of the design solution, expressed by economic indices and indicators.	**2**
14. Technical Quality Control (CTC)	**2**

VI. Bibliography

1. Cociu V., ,,Tehnologia confecţiilor din piele"Edit.didactică şi pedagogică, Bucureşti, 1965.
2. Cociu V., Mălureanu G.,Volocariu R., ,,Bazele tehnologiei produselor din piele şi înlocuitori"- Îndrumar de laborator tipar Rotaprint I.P. Iaşi, 1976.
3. Secan Maria Cristina ,, Lucrări practice și de proiect la disciplina *Procese de fabricație în pielărie* '', Editura Universității din Oradea, 2011.
4. Volocariu R.S., ,,Procese de fabricaţie în industria produselor din piele şi înlocuitori", Edit.,,Gh.Asachi", Iaşi, 1999.

VII. Grading criteria

Activities	Assesment	% of final grade
Exam	Written exam: 1. Requirements in order to get the minimum grade for passing the exam 2. Requirements for the maximum grade	10 subjects, of which 5 are made for the minimum grade, and 10 for the maximum grade.
Seminar/Laboratory/Project		Project presentation

VIII. Learning outcomes:

Course coordinator,
S.l.dr.ing.Secan Cristina